

BBBBBBBBBBBBBBB AAAAAAAA SSSSSSSSSSSS RRRRRRRRRRRRR TTTTTTTTTTTTTT LLL
BBBBBBBBBBBBBBB AAAAAAAA SSSSSSSSSSSS RRRRRRRRRRRRR TTTTTTTTTTTTTT LLL
BBBBBBBBBBBBBBB AAAAAAAA SSSSSSSSSSSS RRRRRRRRRRRRR TTTTTTTTTTTTTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
BBB BBB AAA AAA SSS RRR RRR TTT LLL
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BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSS RRRRRRRRRRRRR TTT LLL
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSS RRRRRRRRRRRRR TTT LLL
BBB BBB AAAAAAAAAAAAAA SSS RRR RRR TTT LLL
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BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSSSS RRR RRR TTT LLLL
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSSSS RRR RRR TTT LLLL
BBBBBBBBBBBBBBB AAA AAA SSSSSSSSSSSS RRR RRR TTT LLLL

BBBBBBBBBB	PPPPPPPP	AAAAAA	SSSSSSSS	TTTTTTTTTT	RRRRRRRR	UU	UU	CCCCCCCC	TTTTTTTTTT
BBBBBBBBBB	PPPPPPPP	AAAAAA	SSSSSSSS	TTTTTTTTTT	RRRRRRRR	UU	UU	CCCCCCCC	TTTTTTTTTT
BB	BB	PP	PP	AA	AA	SS	TT	RR	RR
BB	BB	PP	PP	AA	AA	SS	TT	RR	RR
BB	BB	PP	PP	AA	AA	SS	TT	RR	RR
BB	BB	PP	PP	AA	AA	SS	TT	RR	RR
BBBBBBBBBB	PPPPPPPP	AA	AA	SSSSSS	TT	RRRRRRRR	UU	UU	TT
BBBBBBBBBB	PPPPPPPP	AA	AA	SSSSSS	TT	RRRRRRRR	UU	UU	TT
BB	BB	PP		AAAAAAA	SS	TT	RR	RR	TT
BB	BB	PP		AAAAAAA	SS	TT	RR	RR	TT
BB	BB	PP		AA	AA	SS	TT	RR	RR
BB	BB	PP		AA	AA	SS	TT	RR	RR
BBBBBBBBBB	PP	AA	AA	SSSSSSSS	TT	RR	RR	UUUUUUUU	CCCCCCCC
BBBBBBBBBB	PP	AA	AA	SSSSSSSS	TT	RR	RR	UUUUUUUU	CCCCCCCC

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RRRRRRRR	EEEEEEEEE	QQQQQQ
RRRRRRRR	EEEEEEEEE	QQQQQQ
RR	RR	EE
RRRRRRRR	EEEEEEEEE	QQ
RRRRRRRR	EEEEEEEEE	QQ
RR	RR	EE
RR	RR	EEEEEEEEE
RR	RR	EEEEEEEEE

+ This file, BPASTRUCT.REQ, defines the data structure definition macros
to aid people using BLISS BLOCK data structures

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AUTHOR: J. Ankcorn

MODIFIED BY: J. Barker

Changes to facilitate use with BLISS-32 on VAX.

Edit History:

- 1-001 - Original, from STRUCT.R32, from ESE. JBS 02-OCT-1979
- 1-002 - Remove the defense against requiring this file redundantly.
JBS 02-OCT-1979
- 1-003 - Add copyright notice. SBL 11-Mar-1980

-- POSITION AND SIZE MACROS

The following macros must be used in defining field names for
compiler structures to supply the position, size and extension
values for a BLOCK or BLOCKVECTOR structure reference.
The various forms are :

A	Materialized Address.
L	Longword.
W	Zero extended word.
B	Zero extended byte.
V	Zero extended bit field.
M	Define bit field mask.

SW Sign extended word.
SB Sign extended byte.
SV Sign extended bit field.

The "A" forms should be used whenever the field being defined is such that the only valid structure reference is one that materializes the address of the field. An example of such a field is an ASCII string.

Each of the "V", "M" and "SV" forms takes one or two arguments. The first parameter is the bit position within the word and the second is the size of the field. The second parameter is optional; the default size is 1.

MACRO

A_= 0, 0, 0 %.
L_= 0, 32, 0 %.
W_= 0, 16, 0 %.
B_= 0, 8, 0 %.
V_(P,S)= P, %IF %NULL(S) %THEN 1 %ELSE S %FI, 0 %.
M_(P,S)= 1^(%IF %NULL(S) %THEN 1 %ELSE S %FI + P) - 1^P %.
SW_= 0, 16, 1 %.
SB_= 0, 8, 1 %.
SV_(P,S)= P, %IF %NULL(S) %THEN 1 %ELSE S %FI, 1 %;

! End of file BPASTRUCT.REQ

0019 AH-BT13A-SE
VAX/VMS V4.0

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BASERMSG REQ	BASFRAME REQ	BASOPN REQ	BPAFSBDEF REQ	BPASTRUCT REQ
BPAADABDEF REQ	BPAFBDEF REQ	BPAFRBDEF REQ	BPAFUNDDEF REQ	BASBUFSIZ LIS
BPAERRDEF REQ	BPAFUNDDEF REQ	BASINARG REQ	BPAFUNDDEF REQ	MATRIX MAR
BASIOERR REQ	BPAFQBDEF REQ	BASLINK REQ	BPAMSGDEF REQ	BASCBLIS
BASRTL2 MAP	BASPAR SOL	BASRTL MAP	BASCTYPLIS	